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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/682,593	09/25/2001	Yu-Chong Tai	6618/706001 / CIT 3311	5197	
20985	7590 12/16/2003		EXAMINER		
	CHARDSON, PC	TAMAI, KARL I			
	AMINO REAL ), CA 92130-2081		ART UNIT PAPER NUM		
			2834		

DATE MAILED: 12/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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				MV			
	Applicatio	n No.	Applicant(s)	1			
	09/682,59	3	TAI ET AL.				
Office Action Summary	Examiner		Art Unit				
	Tamai IE K		2834				
The MAILING DATE of this communication app Period for Reply	pears on the	cover sheet with the co	rrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CPR.11 after SIX (0) MONTH's from the mailing date of this commonication.  If the product of the state of the	136(a). In no ever ly within the statu will apply and will e, cause the appli	nt, however, may a reply be time tory minimum of thirty (30) days expire SIX (6) MONTHS from to cation to become ABANDONED	oly filed will be considered timel the mailing date of this of (35 U.S.C. § 133).	y. ommunication.			
1) Responsive to communication(s) filed on 31 O	october 2003	<b>)</b> .					
	action is no						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1,4-16 and 19-28 is/are pending in the	e application	n.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) 1,4,5,12-16 and 19-28 is/are allowed.							
6)⊠ Claim(s) <u>6-11</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
12)							
Attachment(s)		_					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s) _		4) Interview Summary ( 5) Notice of Informal Pa 6) Other:					

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#### DETAILED ACTION

#### Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 6, 7, 10, 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Jaing et al. (Jaing)(US 6511859). Jaing teaches forming a mems with a parylene cantilever, with a sacrificial layer of material on a substrate where there are at least one bumps (structures) between said polymer structure and said substrate which avoids said polymer structure sticking to said substrate after said removing (See figure 1E). Jaing teaches the sacrifice layer 130 prevents sticking of of the cantilever to the substrate where, the sacrifice layer is removed during assembly.

### Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neatived by the manner in which the invention was made.

4. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jaing et al. (Jaing)(US 6511859) and Hetrick et al. (Hetrick)(US 6404028). Jaing teaches every aspect of the invention except the titanium and polysilicon layers. Hetrick teaches layer 32 as a polysilicon electrode, which is an adhesion resistant layer. Hetrick suggests that titanium is also a good metal because AHC adheres well to the metal. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the cantilever of Jaing with the layer 32 being polysilicon or titanium to help prevent sticking/stiction as taught by Hetrick.

#### Allowed Claims

Claims 1.4.5.12-16 and 19-28 are allowed.

## Response to Arguments

6. Applicant's arguments filed 10/31/2003 have been fully considered but they are not persuasive. The Applicant's arguments that Jiang does not teach the anti stiction layer being a different material than the substrate is not persuasive. The substrate of Jiang is silicon and the bumps shown in figures 1E and 1F are made of paraylene. Therefore they are different materials. The Applicant's argument that the titanium and polysilicon are electrode materials not anti-stiction materials is not persuasive because they are the materials of the cantilever and it is different from the substrate.

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#### Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (703) 305-7066 until February 1, 2004, or at (571) 272-2036 after February 2, 2004. The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Nestor Ramirez, can be reached at (703) 308-1371. The facsimile number for the Group is (703) 872-9306. Any inquiry of a general nature of this application should be directed to the Group receptionist at (703) 308-0956.

Karl I Tamai PRIMARY PATENT EXAMINER December 11, 2003

KARL TAMAINE